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IAC-D-74/5
5 August 1957

FIFTH ANNUAL PROGRESS REPORT TO THE IAC OF THE
SCIENTIFIC ESTIMATES COMMITTEE
FISCAL YEAR 1957

I. Authority for the Scientific Estimates Committee

The Scientific Estimates Committee was established on 14 August 1952 by Director of Central Intelligence Directive (DCID) 3/4, pursuant to the provisions of National Security Council Intelligence Directive (NSCID) No. 3 and the recommendation of the IAC Ad Hoc Committee to Survey Existing Arrangements Relating to Production of Scientific and Technical Intelligence (IAC-M-79, 14 August 1952).

II. Organization of the Scientific Estimates Committee

The permanent membership of the SEC consists of representatives from Central Intelligence Agency, The Joint Staff, the Departments of State, Army, Navy, and Air Force, and the Atomic Energy Commission.

The SEC has no permanent subcommittee structure. It employs ad hoc subcommittees, when needed, to discuss or report upon particular subjects under consideration.

III. Responsibilities and Accomplishments of the Scientific Estimates Committee

Pursuant to DCID 3/4, the SEC is charged with three responsibilities for the coordination of intelligence in scientific and technical fields.* The accomplishments of the SEC under each of its responsibilities are summarized below:

* Atomic energy intelligence is assigned to the Joint Atomic Energy Intelligence Committee (JAEIC) by DCID 3/4; guided missile intelligence is assigned to the Guided Missile Intelligence Committee (GMIC) by Annex D to DCID 3/4, dated 31 January 1956.

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A. The SEC shall "integrate scientific and technical intelligence as and when required, for the production of national intelligence."

1. The SEC integrated scientific and technical intelligence contributions to eight national intelligence estimates (listed at Tab A). A major effort in this connection was SEC production, in collaboration with the JAEIC, GMIC, and Economic Intelligence Committee (EIC) in their respective spheres of responsibility, of the first comprehensive community-wide study of capabilities and trends in Soviet science and technology, as the basis for a national intelligence estimate (NIE 11-6-56) on the subject. This joint study evaluates the Soviet scientific effort as a whole and the many facets thereof in relation to the total effort.

2. In addition, in fulfillment of its implicit responsibility to improve the scientific and technical intelligence contribution to national intelligence, the SEC:

a. Derived in collaboration with the JAEIC and GMIC in respective areas of responsibility a revision of the first community statement of priority objectives in scientific and technical intelligence from the over-all Priority National Intelligence Objectives (DCID 4/6). The revised statement, approved by the IAC on 5 March 1957 supersedes IAC-D-50/8, dated 10 January 1956 and continues to provide firm guidance for the collection and production of national scientific and technical intelligence in conformity with national security policy.

b. Revised the first community-wide estimate (1954) in the field of Soviet biological warfare capabilities. The current estimate (SEC 3-56) points to the almost certain existence of a Soviet biological warfare program and assesses Soviet capabilities in offensive and defensive biological warfare.

c. Prepared a statement of general conclusions on Soviet offensive and defensive chemical warfare capabilities, in which the existence of a well-established and capably-staffed Soviet CW research and development program is

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estimated. The agreed statement provides the basis for discussion of Soviet chemical warfare capabilities in SEC contributions to national intelligence estimates.

d. Updated the first community-wide survey (1955) of deficiencies in biological warfare intelligence, with recommendations for appropriate action. The IAC noted the report and approved the recommendations as amended on 28 May 1957 (Item 5, IAC-M-291).

e. Completed a coordinated, all-source program of electronic studies bearing upon operational capabilities of Sino-Soviet Bloc air defense radars and derived therefrom the first community estimate of the subject. This estimate has materially assisted the SEC in meeting requirements on the subject for national intelligence purposes and has helped to orient further collection and research efforts by member agencies.

f. Provided assistance to member agencies in planning production of scientific and technical intelligence, minimizing duplication of research effort, and identifying possible gaps in coverage, through production of the fourth "Annual Report of the Status of Scientific and Technical Intelligence Production Projects." This series covers on a world-wide basis programmed internal and external research projects of member agencies in this field.

B. The SEC shall "coordinate the production of Chapter VII of the NIS."

1. The SEC fulfilled its NIS commitment for Fiscal Year 1957 by coordinating the production of 15 Sections of Chapter VII, Scientific, and seven Sections 17, Scientific, of Chapter I, Brief, of the NIS. A tabulation of these contributions is at Tab B.

2. The SEC prepared a consolidated schedule for production of NIS Chapter VII and NIS Section 17 during Fiscal Year 1958. This detailed schedule established the timing of each step for the

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fulfillment of the Committee's NIS requirements during the current fiscal year.

3. The SEC prepared, with NIS Committee approval, a detailed program for the production of NIS Chapter VII through Fiscal Year 1961 on the basis of an agreed list of Sino-Soviet Bloc and non-Bloc areas which, in its opinion, require an assessment of the fundamental aspects of scientific research and development for national planning purposes. This advance programming enables optimum collection in response to specific collection requirements and provides time for necessary research.

C. The SEC shall "stimulate and guide interagency liaison and such working-level conferences as may be appropriate."

25X1X 1. The SEC (a) maintained a community program of coordinated guidance [REDACTED] and (b) 25X1X completed a comprehensive review of all SEC guidance [REDACTED]. 25X1X

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3. In compliance with a request by the Director of Central Intelligence, with the concurrence of the IAC, the SEC initiated action to provide staff support for US participation in the proposed [REDACTED]

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D. Other Responsibilities

1. In compliance with IAC directive, the SEC submitted to the IAC a statement of "Emergency Planning of the Scientific Estimates Committee." The paper presents the committee's concept of an SEC wartime plan of operation and provides a framework for more detailed planning to meet emergency situations under anticipated types of warfare.

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IV. Objectives for the Coming Year

In accordance with the provisions of DCID 3/4, the SEC will continue to work toward its principal objective of strengthening the over-all governmental intelligence structure for the production of scientific and technical intelligence. As new programs to improve its effectiveness, the SEC proposes:

- a. To produce detailed studies in scientific and technical fields as necessary to provide basic papers in support of national intelligence requirements.
- b. To publish in the format of SEC studies its contributions to certain national intelligence estimates where the committee feels that broader dissemination of the full discussion is warranted.
- c. To review periodically the intelligence progress made in fields on which the SEC has conducted substantive surveys.

30 July 1957

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